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<u>Abstract</u>

A method for controlling Dipteran larvae or a method for inhibiting the development of larvicidal resistance, controlling resistant populations and reducing resistance levels in Diptera by introducing a larvicidally-effective amount of a combination of a strain of *Bacillus thuringiensis* subspecies *israelensis* and a strain of *Bacillus sphaericus* into an environment containing Dipteran larvae; and a composition of the combination are disclosed. Preferably both strains are non-genetically modified.